

## EAST Search History

| Ref # | Hits | Search Query                                                                                                                                                                                                                         | DBs                                                                        | Default Operator | Plurals | Time Stamp       |
|-------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------|---------|------------------|
| L6    | 17   | (solvent diluent) with (nanotube swnt swcnt mwnt mwcnt) with (((electroconducti\$3 conduct\$3) near3 polymer\$3) polyaniline polyacetylene polypyrrole polythiophene polyfluorene polyhexylthiophene polynaphthalene polyphethylene) | US-PGPUB                                                                   | OR               | ON      | 2007/05/21 16:05 |
| L7    | 46   | (solvent diluent) with (nanotube swnt swcnt mwnt mwcnt) with (((electroconducti\$3 conduct\$3) near3 polymer\$3) polyaniline polyacetylene polypyrrole polythiophene polyfluorene polyhexylthiophene polynaphthalene polyphethylene) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/05/21 16:05 |
| L8    | 19   | 7 and (@pd<"20031031" or @ad<"20031031" or @prad<"20031031" or @rlad<"20031031")                                                                                                                                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR               | ON      | 2007/05/21 16:17 |

# Search Report:

NGUYEN 10/532,585

Page 28

- Polyesters, uses  
 Polyoxymethylenes, uses  
 Polythiophenylenes  
 (resin compn. contg. elec. conductive multilayer carbon  
**nanotube** filler with mech. strength)
- IT 24936-68-3, S 3000, uses  
 (S 3000; resin compn. contg. elec. conductive multilayer carbon  
**nanotube** filler with mech. strength)
- IT 497166-28-6, S 731  
 (S 731; resin compn. contg. elec. conductive multilayer carbon  
**nanotube** filler with mech. strength)
- IT 25037-45-0 26062-94-2  
 (assumed monomers; resin compn. contg. elec. conductive  
 multilayer carbon **nanotube** filler with mech. strength)
- IT 1760-24-3, KBM 603  
 (coupling agent; resin compn. contg. elec. conductive multilayer  
 carbon **nanotube** filler after treatment with)
- IT 7440-44-0, Carbon, uses  
 (**nanotubes**; resin compn. contg. elec. conductive  
 multilayer carbon **nanotube** filler with mech. strength)
- IT 9003-56-9, T 100 24968-12-5, 1401X-07 25038-54-4, CM 1017, uses  
 25212-74-2, M 2588 32131-17-2, CM 3007, uses 58891-11-5,  
 Bisphenol A-diaminodiphenyl sulfone-epichlorohydrin copolymer  
 (resin compn. contg. elec. conductive multilayer carbon  
**nanotube** filler with mech. strength)

L38 ANSWER 11 OF 11 HCA COPYRIGHT 2006 ACS on STN

138:160831 Conformal conductor coatings comprising carbon

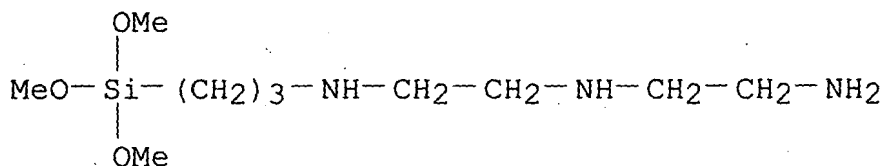
**nanotubes** for electromagnetic interference shielding.

Glatkowski, Paul J.; Landrau, Nelson; Landis, David H., Jr.; Piche,  
 Joseph W.; Conroy, Jeffrey (Eikos, Inc., USA). PCT Int. Appl. WO  
 2003013199 A2 20030213, 36 pp. DESIGNATED STATES: W: AE, AG, AL,  
 AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ,  
 DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,  
 IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
 MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,  
 SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW; RW: AT, BE,  
 BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE,  
 IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English).  
 CODEN: PIXXD2. APPLICATION: WO 2002-US23413 20020724. PRIORITY: US  
 2001-307885P 20010727.

AB The invention is directed to conformal coatings that provide  
 excellent shielding against electromagnetic interference (EMI). A  
 conformal coating comprises an insulating layer and a conducting  
 layer contg. elec. conductive material. The insulating layer  
 comprises materials for protecting a coated object. The conducting  
 layer comprises materials that provide EMI shielding such as C  
 black, C buckyballs, C **nanotubes**, chem.-modified C

**Nanotubes** and combinations thereof. The insulating layer and the conductive layer may be the same or different, and may be applied to an object simultaneously or sequentially. Accordingly, the invention is also directed to objects that are partially or completely coated with a conformal coating that provides EMI shielding.

- IT **35141-30-1D, DETA, polymers**  
(conformal **conductor** coatings comprising carbon **nanotubes** and polymers for electromagnetic interference shielding)
- RN 35141-30-1 HCA
- CN 1,2-Ethanediamine, N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl]-  
(9CI) (CA INDEX NAME)



- IC ICM H05K
- CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)  
Section cross-reference(s): 38, 76
- ST carbon **nanotube** electromagnetic interference shield coating
- IT Polyimides, uses  
(CP 1; conformal conductor coatings comprising carbon **nanotubes** and polymers for electromagnetic interference shielding)
- IT Polysiloxanes, uses  
(HumiSeal 1C49; conformal conductor coatings comprising carbon **nanotubes** and polymers for electromagnetic interference shielding)
- IT **Nanotubes**  
(carbon; conformal conductor coatings comprising carbon **nanotubes** and polymers for electromagnetic interference shielding)
- IT Medical goods  
(catheters; conformal conductor coatings comprising carbon **nanotubes** and polymers for electromagnetic interference shielding)
- IT Accelerometers  
Antioxidants  
Binders  
**Conducting polymers**  
Crosslinking agents

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- electric films
- Dispersing agents
- Dyes
- Electric coils
- Electromagnetic shields
- Fiber optics
- Flowmeters
- Heat exchangers
- Integrated circuits
- Magnets
- Photoelectric devices
- Printed circuit boards
- Sensors
- Stabilizing agents
- Transducers
- UV stabilizers
  - (conformal **conductor** coatings comprising carbon **nanotubes** and polymers for electromagnetic interference shielding)
- IT Acrylic **polymers**, uses
- Carbon black, uses
- Chalcogenides
- Epoxy **resins**, uses
- Fullerenes
- Gelatins, uses
- Polycarbonates, uses
- Polyesters, uses
- Polynucleotides
- Polysaccharides, uses
- Polyurethanes, uses
- Proteins
- Rubber, uses
  - (conformal **conductor** coatings comprising carbon **nanotubes** and polymers for electromagnetic interference shielding)
- IT Films
  - (elec. conductive; conformal conductor coatings comprising carbon **nanotubes** and polymers for electromagnetic interference shielding)
- IT Electric conductors
  - (films; conformal conductor coatings comprising carbon **nanotubes** and polymers for electromagnetic interference shielding)
- IT Prosthetic materials and Prosthetics
  - (implants, artificial heart pacemaker; conformal conductor coatings comprising carbon **nanotubes** and polymers for electromagnetic interference shielding)
- IT Heart

(pacemaker, artificial; conformal conductor coatings comprising carbon **nanotubes** and polymers for electromagnetic interference shielding)

T Ceramic composites

(**polymer**; conformal **conductor** coatings comprising carbon **nanotubes** and polymers for electromagnetic interference shielding)

T Plastics, uses

(thermoplastics; conformal conductor coatings comprising carbon **nanotubes** and polymers for electromagnetic interference shielding)

IT 58067-42-8D, Tetramethylxylylene diisocyanate, **polymers** (TMXDI; conformal **conductor** coatings comprising carbon **nanotubes** and polymers for electromagnetic interference shielding)

IT 1398-61-4, Chitin 7440-02-0, Nickel, uses 7440-22-4, Silver, uses 7440-50-8, Copper, uses 9002-86-2, Polyvinyl chloride 9002-88-4, Polyethylene 9003-07-0, Polypropylene 9003-53-6, Polystyrene 9004-34-6, Cellulose, uses 13840-40-9, Phosphine oxide 25038-59-9, Polyethylene terephthalate, uses 25722-33-2, Parylene 33294-14-3, FR4 **35141-30-1D**, DETA, **polymers** 494853-12-2, HumiSeal 1A37HV 494853-23-5, HumiSeal 1B73 494853-24-6, HumiSeal 1A20 (conformal **conductor** coatings comprising carbon **nanotubes** and polymers for electromagnetic interference shielding)

IT 7440-44-0, Carbon, uses

(**nanotubes**; conformal conductor coatings comprising carbon **nanotubes** and polymers for electromagnetic interference shielding)